

Lake Assault Boats, LLC
1 Clough Ave
Superior, WI 54880

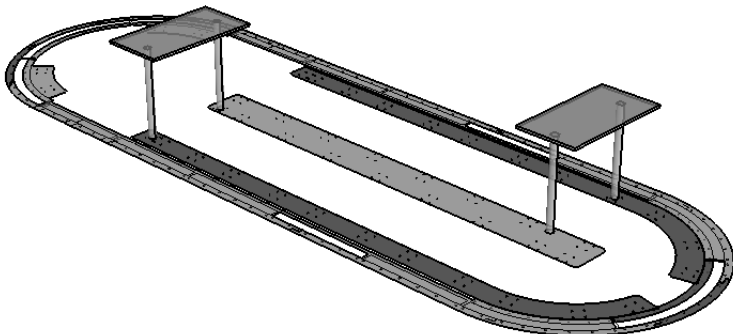
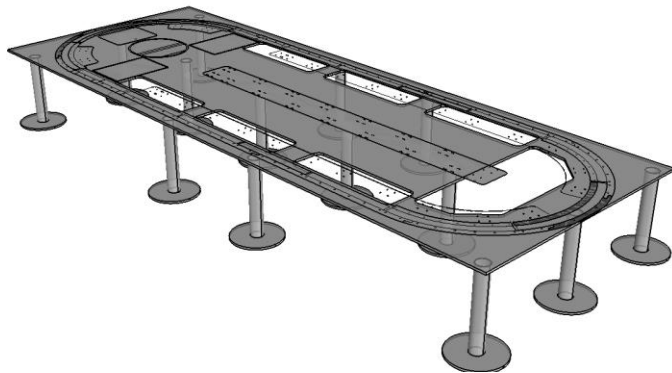
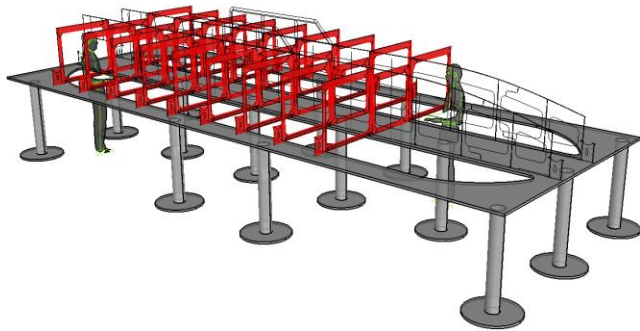
Barge Design Presentation

Experience

Lake Assault Boats is a custom boat manufacturer of a wide variety of types of vessels. We are accustomed to working with our customers to deliver exactly what they need. All of the boats we have manufactured are made of marine grade aluminum, completely welded throughout. Our welders are ABS certified, with many years' experience of welding under their belts. Our fabricators are experienced with every aspect of boat building. Key personnel for this contract have a combined fifty years of experience in design and production in the marine industry.



Review of the Design



LAKE ASSAULT FEELS THAT THE KEY TO HAVING SUCCESSFUL PROJECTS IS HAVING A WELL-ORCHESTRATED PLAN AT THE OUTSET, AND THE ABILITY AND CAPACITY TO FULFILL THIS PROJECT. THE MODULAR NATURE OF THE DESIGN, EVEN THOUGH WELL THOUGHT OUT AND FUNCTIONAL, DID LOOK TO POSE SOME UNIQUE CHALLENGES FOR THE SELECTED BUILDER.

ONE OF THOSE AREAS OF CONCERN WAS THE TOLERANCE BETWEEN THE FABRICATED DECK AND THE MATING MODULAR SEATING AND DINING COMPONENTS.

LAB HAS ALREADY ADDRESSED THIS CONCERN IN A SERIES OF ASSEMBLY FIXTURES THAT WILL ALLOW THE WELDMENTS TO BE BUILT ON A SOLID FOUNDATION. THE DESIGN AND CONSTRUCTION OF THESE FIXTURES WILL ALSO AID IN MINIMIZING WELD DISTORTION, RESULTING IN A HIGH QUALITY REPEATABLE PRODUCT.

Detail Recommendations

LAKE ASSAULT PROPOSED USING A FENDER OR COLLAR THAT WAS MECHANICALLY ATTACHED TO THE HULL. IN OUR OPINION, THE FENDER IS A SACRIFICIAL PIECE THAT IS INTENDED TO PROTECT THE HULL WHILE IN OPERATION.

LAKE ASSAULT ALSO ADDRESSED THE NEED FOR SACRIFICIAL ANODES TO BE INSTALLED ON THE HULL OF THE BARGES. THE ANODES ARE USED TO PREVENT CORROSION OF THE HULL.



Quality Assurance Plan

Our jig and fixtures concepts allow us the tolerance restriction and repeatability needed to assure a quality product. Quality is monitored daily on the production floor and enforced by the Project, and Production Managers. Each barge has it's own QA/QC worksheet. Prior to leaving a work station, each component will have an inspection to ensure it meets the required tolerances, and will be documented on the worksheet, and signed off by MetaLab and LAB before moving on to the next work station.



Quality Assurance

Timeline

Lake Assault fully expects the initial build of the Beta barge to be slower. Subsequent builds will become faster and more efficient as experience is gained. At full-paced production, one barge per week will be completed. The first barge will be tested at the shipyard in late January and delivered to San Antonio for additional testing in mid-February. Delivery of 20 barges to be made by September 2017, and 23 barges by November 2017.



Testing of Beta in mid-February

The purpose of building Beta first is to see whether the current design adequately meets operating conditions. We will ship Beta to San Antonio and launch Beta for further testing in the first week of February. Bistro and Group Dining tables for Beta will also be shipped with Beta. Lake Assault will remain in San Antonio for three days to assist with testing.



Delivery in September & November

- We have arranged for the barges to be transported in sets of (2) on a drop deck truck trailer. Barges will be secured to the trailer and will rest upon custom made high density foam blocks.

